

Title (en)
Catalyst

Title (de)
Katalysator

Title (fr)
Catalyseur

Publication
EP 2746301 B1 20180530 (EN)

Application
EP 12199255 A 20121221

Priority
EP 12199255 A 20121221

Abstract (en)
[origin: EP2746301A1] A catalyst comprising (i) an asymmetric complex of formula (I) wherein M is zirconium or hafnium; each X is a sigma ligand; L is a divalent bridge selected from -R' 2 C-, -R' 2 C-CR' 2 -, -R' 2 Si-, -R' 2 Si-SiR' 2 -, -R' 2 Ge-, wherein each R' is independently a hydrogen atom, C1-C20-alkyl, tri(C1-C20-alkyl)silyl, C6-C20-aryl, C7-C20-arylalkyl or C7-C20-alkylaryl; R 2 and R 2' are each independently linear C 1-10 hydrocarbyl; R 5 and R 5' are each independently hydrogen or a C 1-20 hydrocarbyl group; R 6 and R 6' are each independently hydrogen or a C1-20 hydrocarbyl group; R 7 is hydrogen or a C1-20 hydrocarbyl group or is ZR 3 ; Z is O or S, preferably O; R 3 is a C1-10 hydrocarbyl group; Ar is an aryl or heteroaryl group having up to 20 carbon atoms optionally substituted by one or more groups R 8 ; Ar' is an aryl or heteroaryl group having up to 20 carbon atoms optionally substituted by one or more groups R 8' ; R 8 and R 8' are each independently is a C1-20 hydrocarbyl group; with the proviso that at least one of R 6 or R 7 is not H; and (ii) a cocatalyst comprising a compound of a group 13 metal, e.g. boron.

IPC 8 full level
C07F 7/08 (2006.01); **C07F 17/00** (2006.01); **C08F 4/6592** (2006.01); **C08F 10/06** (2006.01)

CPC (source: EP US)
C07C 1/326 (2013.01 - US); **C07F 7/081** (2013.01 - EP US); **C07F 17/00** (2013.01 - EP US); **C08F 4/65927** (2013.01 - US); **C08F 110/06** (2013.01 - US); **C07C 2531/18** (2013.01 - US); **C08F 4/65912** (2013.01 - US)

Cited by
CN108250340A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2746301 A1 20140625; **EP 2746301 B1 20180530**; CN 104870492 A 20150826; CN 104870492 B 20170808; ES 2674576 T3 20180702; JP 2016501952 A 20160121; JP 6178864 B2 20170809; KR 102075815 B1 20200210; KR 20150103053 A 20150909; US 2015344596 A1 20151203; US 9598517 B2 20170321; WO 2014096166 A1 20140626

DOCDB simple family (application)
EP 12199255 A 20121221; CN 201380067632 A 20131219; EP 2013077339 W 20131219; ES 12199255 T 20121221; JP 2015548565 A 20131219; KR 20157018736 A 20131219; US 201314654405 A 20131219